0.00

Memo

QC

Quality Control

NCR: Y	es / No				WORK ORDER NON-O	CONFOR	MANCE / UP	DATE			*
									QA Closed:	Date:	. *
Work Orde	er:				DISPOSITION	,	cuid Auber	p	EPARTMENT,	/PROCESS Water Jet	. Facina aring
Part N					Rework Scrap Use-as-is Work Order Update	Ther	Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite		d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
		i .	T	D		la inia	Λ.	tion	Cian 0	<u> </u>	T
Root Cause	Date	Step	Qty		ption of work order update or Non-conformance	Initial Chief Eng	1	tion ription	Sign & Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved											
						AULT CAT	EGORY				
Landir	Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspection Ripples in Torque W	Crimped it n Strip in Bend	Tube		General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing	Instruction Maint Mislat Misrea Offset	tion Incomplete ctions Incomplete/ cenance peled ad	/Unclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V Power Loss/	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
Ì	Turning S	equence			Finish	Out of	Sequence				·

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

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Work Orde				*93	215*						Page 2	2
	647.7914 Bracket 11/15/12	Start Qty: 4.00	*4*	Accept	*N900		100)* s	etup Sta	I VI	S1* S2*	
Required Date: Reference:	11/30/12	Req'd Qty: 4.00	*4*		Customer:							
Approvals:		lan:	Date:	Tooling: SPC (Y/N):		ate:		R	un Sta Sto		R1* R2*	
Sequence ID/ Work Center II 130 *130* QC Quality Control	D	Operation Description QC8- Inspect parts - seco	and check	Set Up/ Run Hours 0.00 15 0.00 7			Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	-
140 *140 * Brake NC Brake NC		Form as per dwg Memo		0.00				4_				Sindi
150 *150* QC		QC5- Inspect part compl	eteness to step on W/O	0.00	\$ (5) 5) 1) (2)			4		· · · · · · · · · · · · · · · · · · ·	-	-

Quality Control

												DQA:	Dat	te:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPI	DATE					
												QA Closed:	Dat	te:	.
Work Orde	o'r:					DISPOSITION				AGAINST D	Œ	PARTMENT	/PROCESS		
Part f	- _ No.					Rework Scrap Use-as-is Work Order Update		Thern	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		4	Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
Root					Descri	ption of work order update		Initial	Act	ion		Sign &			
Cause		Date	Step	Qty		or Non-conformance	Cr	nief Eng	Desci	ription		Date	Verification	n	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
							AUI	LT CATE	GORY						
Landi		ear Bending Centre No Cracks Crushed/ Cuffs Heat Trea	Crimped.		O/S	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		4 '	on Incomplete ions Incomplete/l nance led	Jnclear		Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing Vrong		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Ripples in	-			Drill Holes		Offset	•	Ĺ	_	1. 56. 2000/		<u> </u>	

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

180

Packaging

QC5- Inspect part completeness to step on W/O

120

Memo

Quality Control

NCR:	Yes / No				WORK ORDER NON-	CON	FORM	MANCE / UP	DATE			
										QA Closed:	Date	: <u>*</u>
Work Ord	er:				DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS	
Part I					Rework Scrap		ſ	Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality
NCR I	No				Use-as-is Work Order Update	_		noforming	Finishing Composite	Rec/Stoi	re/Packaging Supplier	Other
Root				Descri	ption of work order update	In	itial	Act	tion	Sign &	-	
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator												
Material Setup												
Other						1					:	
Process												
Supplier						1						
Training												
Unapproved												
	-				F	AULT	CATE	GORY				•
Landi	ng Gear '				General					_	_	
	Bending				Bend		Grain			Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to C)/S	BOM/Route	F	Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks		-		Broken/Damaged		nspecti	on Incomplete		Part incorre	ct	Weld
	Crushed/	Crimped.			Burrs		nstruct	ons Incomplete/I	Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs				Contamination		Mainte	nance		Part Moved	_	
	Heat Trea	at			Countersink		Mislabe	led		Positioned V	Vrong	
	Inspectio	n Strip in	Tube		Cut Too Short		Misread			Power Loss/	Surge	Other
	Ripples in	Bend			Drill Holes		Offset		<u> </u>	-		
	Torque W	/aves in E	xtrusion		Drawing	П	Out of C	alibration				
	Turning S				Finish		Out of S	equence				
	Wave/Tw	ist in Tub	oe .		Folio	П	Outside	Dimensions				- "-,

DQA:

Date:

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Work Orde				*932	15*							Page 4
Revision ID:	647.7914 Bracket			Accept	*N900	<u>040</u>	100)*	- ,	tart top	*N:	S1* S2*
Start Date: Required Date: Reference:	11/15/12 11/30/12	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item l Customer:	i D :						
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ate:		ļ		tart top	*N *N	R1* R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty		Reject Number	Insp. Stamp
100 SprayPaint Spray Painting		Memo PRIME IAW CARDINAL	/ MIL-P-23377J TYI 4860-50 PRIMER I	0.00 PEI CLASS N AS PER DWG. BATCH: \25452	(SEE NOTE 2)			_ 4	Ø	<u>{</u>	Ø	13-5-11
200 *200* QC Quality Control		QC14- Inspect Spray Pai	nt .	0.00				_4_		· 		05 13:05.
Quanty Control												

210

Identify as per dwg & Stock Location: \$1,390 0.00

210
Packaging

Memo

0.00

Packaging

IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV

NCR:	Yes / No				WORK ORDER NON-O	CON	FORM	MANCE / UP	DATE			v.
								-		QA Closed:	Date:	·
Work Orde	er:		,	<u>-</u>	DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Part I					Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	_	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	<u> </u>	<u> </u>		Descri	ption of work order update	In	itial	Act	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data								:				
Equip/Tooling		ļ										
Operator												•
Material												
Setup											,	,
Other												
Process			-							1		
Supplier	Ш										:	
Training												
Unapproved		<u> </u>										
					······································	AULI	CATE	GORY				
Landi	ng Gear			Γ-	General Bend		Grain			Ovalized		Pressure/Forced
	Bending Centre No	at Cancar	atric to C	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BOM/Route	\vdash	dardwa	ro	-	Over/Under	tolerance	Temperature/Cure
	Cracks	or concer	itiic to c)'3 -	Broken/Damaged	-		on Incomplete		Part Incorre	 	Weld
	Crushed/	Crimpod			Burrs	-	-	ions Incomplete/	Unclear	Part Lost/Mi	 	Wrong Stock Pulled
	Cuffs	cinipea.		-	Contamination	\vdash	Mainte			Part Moved	331116	J WY ONG Stock Y allea
	Heat Trea	ıt		-	Countersink	\mathbf{H}	Mislabe			Positioned V	Vrong	
	Inspection		Tube		Cut Too Short	\mathbf{H}	Misread			Power Loss/		Other
• •	Ripples in				Drill Holes	\vdash	Offset		<u> </u>		·	
:	Torque W		extrusion	,	Drawing	\vdash		Calibration		-		
	Turning S				Finish		Out of S	equence				

Outside Dimensions

Date:

DQA:

Wave/Twist in Tube

Work Orde November-15-12				*932	215*				Page	5
Item ID: Revision ID: Item Name:	647.7914 Bracket			Accept	*N900040	1100	* Seti	up Start Stop	*NS1* *NS2*	
Start Date: Required Date: Reference:	11/15/12 11/30/12	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item ID: Customer:					
Reference: Approvals: Process Plan: QC:		Date:	Tooling: SPC (Y/N):	Date:		Rur	n Start Stop	*NR1* *NR2*		
Sequence ID/ Work Center II	<u> </u>	Operation Description		Set Up/	Tool ID Tool #		-	_ •	Reject Insp.	

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

220

Quality Control

13/5/21 X

												DQA.	Da	ite.	
NCR:	Yes	/ No				WORK ORDER NON-C	10:	VFORM	MANCE / UP	PDATE		QA Closed:		ate:	
W = = 1 . O = 1			······································			DISPOSITION		****		AGAINST D		PARTMENT	·		
Work Ord Part NCR	No.	_				Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite			Water Jet d. Eng. Coor. e/Packaging Supplier		Engineering Quality Other
Root					Descri	ption of work order update		nitial	Ad	tion	T	Sign &			
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	n	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved						·									
						······································	AUL	T CATE	GORY						
Landi	ng (1			_	General		1		_	_			_	1
		Bending Centre No Cracks Crushed/ Cuffs	Crimped.	ntric to	o/s	Bend BOM/Route Broken/Damaged Burrs Contamination		Instruct Mainte	on Incomplete ions Incomplete, nance	/Unclear		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved	et ssing		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
	1	Heat Trea	at .			Countersink	Ι.	Mislabe	led		ļ	Positioned W	/rong		

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Other

Power Loss/Surge

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

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Picklist Print

November-15-12 9:27:26 AM

Work Order ID:

93215

Parent Item:

647.7914

Parent Item Name:

Bracket

Start Date: 11/15/12

Required Date: 11/30/12

Page 1

Start Qty: 4.00

Required Qty: 4.00

Comments

IPP REV: A 12 10 03 NEW ISSUE DD VERE: IES

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M2024T3S.090 2024-T3 .090 sheet		Purchased	No			110	sf	47.3300	0.084	- 0.353 6844			Jmz-11
				Location		Loc Qty	Lo	c Code					

47.33 47.33

123287

MAT022

123257

NCR:	Yes /	No				WORK ORDER NON-	COI	NFOR	MANCE / UP	DATE			•
										·	QA Closed:	Date:	*
Work Orde	er:					DISPOSITION	1			AGAINST DE	PARTMENT,	,	
Part f	No					Rework Scrap Use-as-is			Skid-tube Machining noforming	Crosstube Small Fab Finishing	4	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR i	No	 .				Work Order Update			Large Fab	Composite]	Supplier	
Root					Descri	ption of work order update	1	nitial	. Ac	tion	Sign &		
Cause		ate	Step	Qty	C	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data	Ш	1											
Equip/Tooling	Ш	1	i		•								
Operator							Ì				,		
Material													
Setup	Ш	1											
Other	Ш												
Process													
Supplier	Ш	l				•			-				
Training						,						1	
Unapproved											<u> </u>		
						F	AUL	T CATE	GORY				
Landi	ng Gea	•				General					_		7
	Ber	nding				Bend		Grain			Ovalized		Pressure/Forced
	Cer	ntre No	t Concer	ntric to (o/s	BOM/Route		Hardwa	ire		Over/Under	tolerance	Temperature/Cure
	Cra	cks				Broken/Damaged		inspect	ion Incomplete	L	Part Incorre	ct	Weld
	Cru	ished/C	rimped.			Burrs		Instruct	tions Incomplete/	'Unclear	Part Lost/Mi	issing	Wrong Stock Pulled
	Cut	fs				Contamination		Mainte	enance		Part Moved		
	He	at Treat				Countersink		Mislabe	eled		Positioned V	Vrong	_
	Ins	pection	Strip in	Tube		Cut Too Short		Misread	b		Power Loss/	Surge	Other
	Rip	ples in	Bend			Drill Holes		Offset					
	Tor	que Wa	aves in E	xtrusion	, [Drawing		Out of (Calibration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

"横""哪",就说"你"。 第二次 电电流	1) P. C. Offin S. K. H.	100 \$3 F \$1 ,0 Ex. 112	1
鮮門 数子花膜描绘 在一个强人主	STATE PART 1	1 July 25 Vell- C 31	
THE DESITE PERMITS DE UT AS	May Markey 5 8	40+400	1

NOTES:

MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4

FINISH: ANODIZE PER MIL STD-A-8625, TYPEIII, CLASS 2, COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N

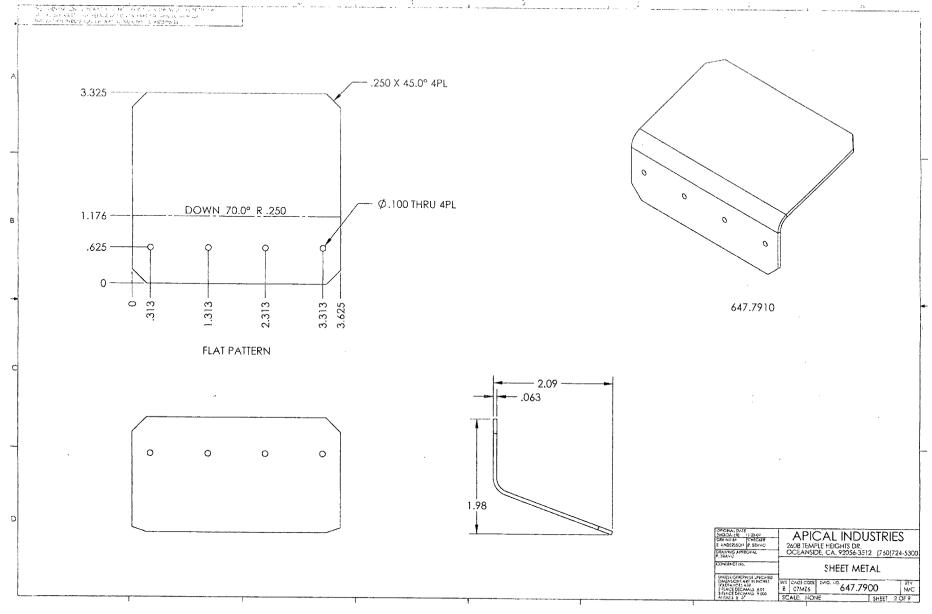
- DEBURR AND BREAK ALL SHARP EDGES
- IDENTIFY IAW MPP-120

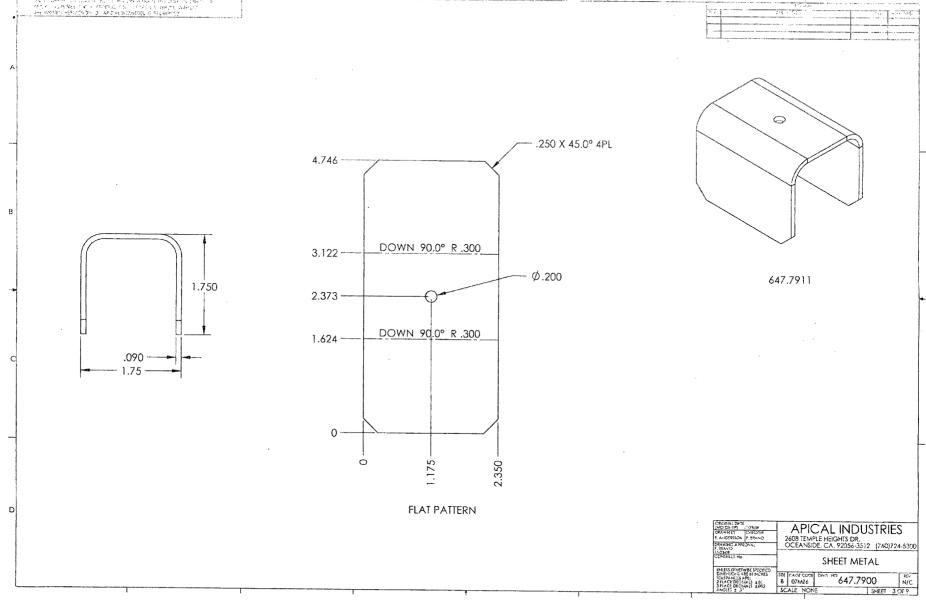
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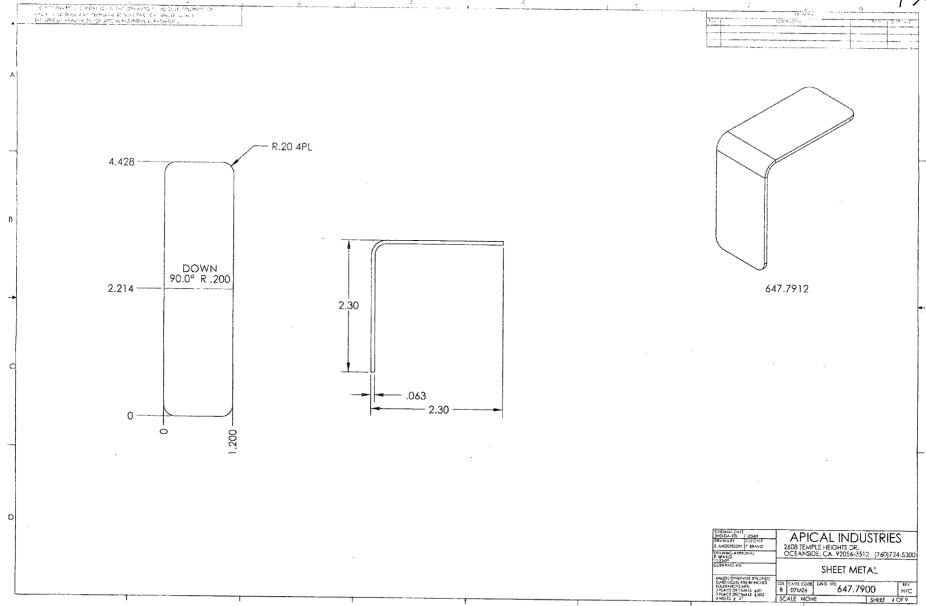
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	647,7918	BRACKET			Z
	647.7917	BRACKET		Δ	2
	647.7916	BRACKET		Δ	A
	647,7915	8RACKET			Δ
	647.7914	BRACKE!		Δ	A
	647.7913	DOUBLER		Δ	A
	647.7912	CLIP	,,	Δ	A
	647:7911	8RACKET			∕∆
	647.7910	ANGLE BRACKE	3	Λ	△
F/N	PART#	DESC	CRIPTION	MATL	SPEC
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NEXT AS	3Y (S) (MA)	DEIAL DATE FOA-TRI LLOSKIN WILLST CHECKER	APICAL I		RIES
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SHEET METAL

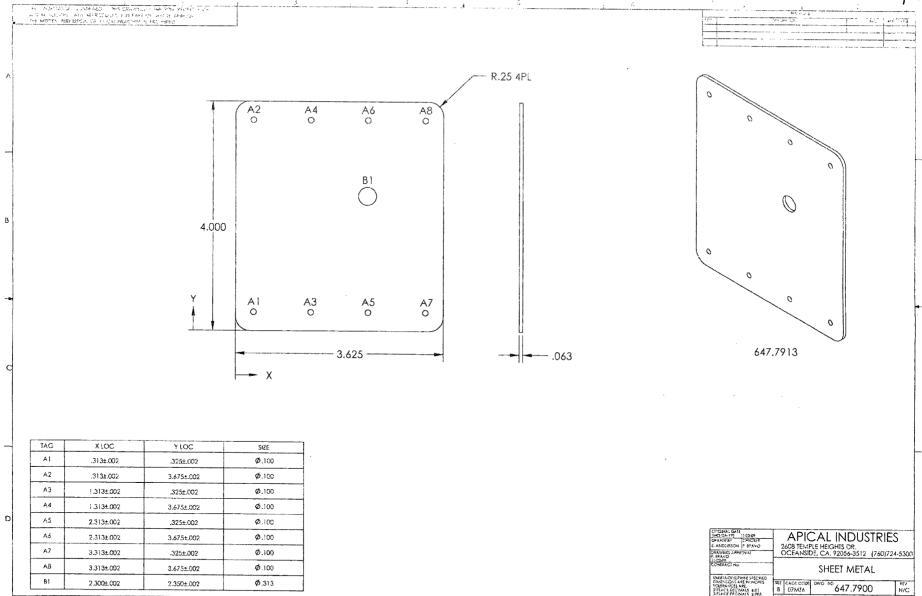
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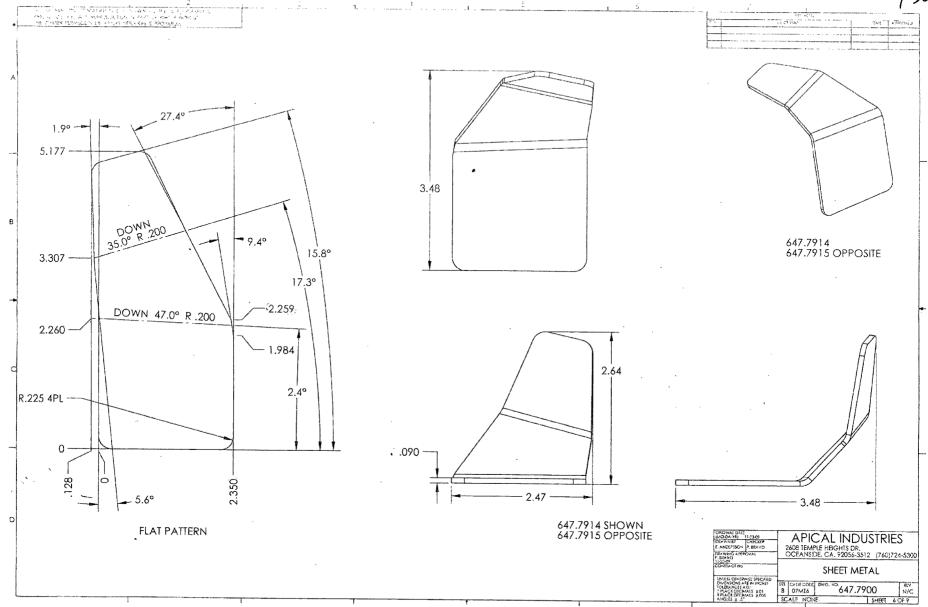


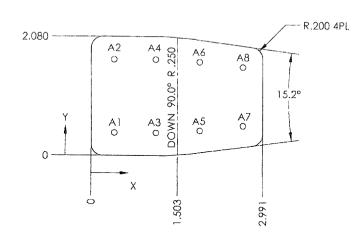




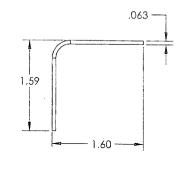
SHEET 5 OF 9

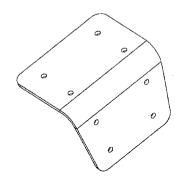






FLAT PATTERN





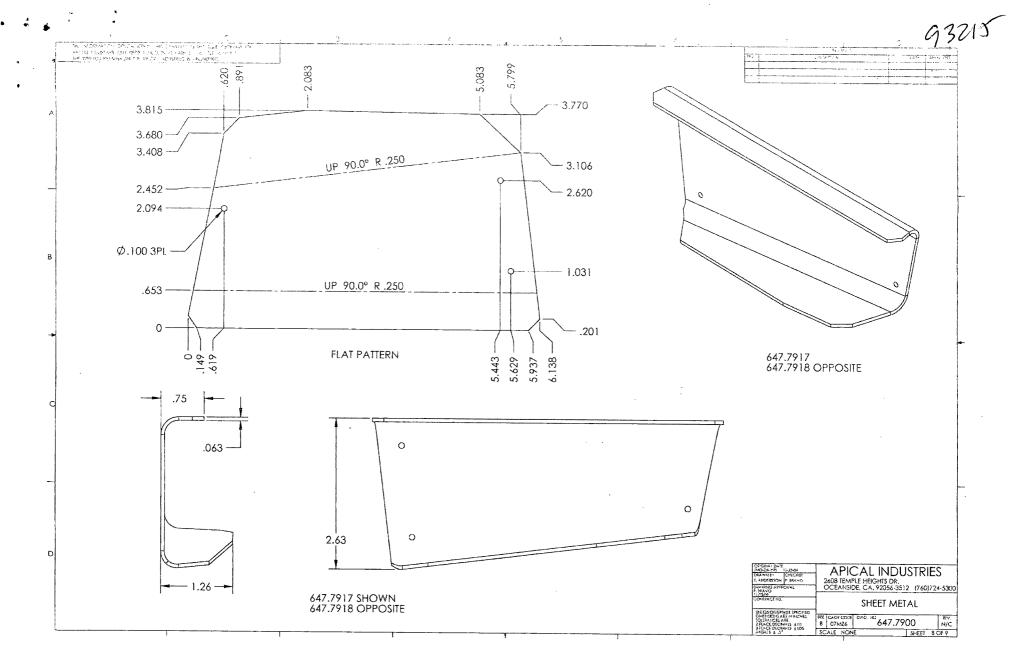
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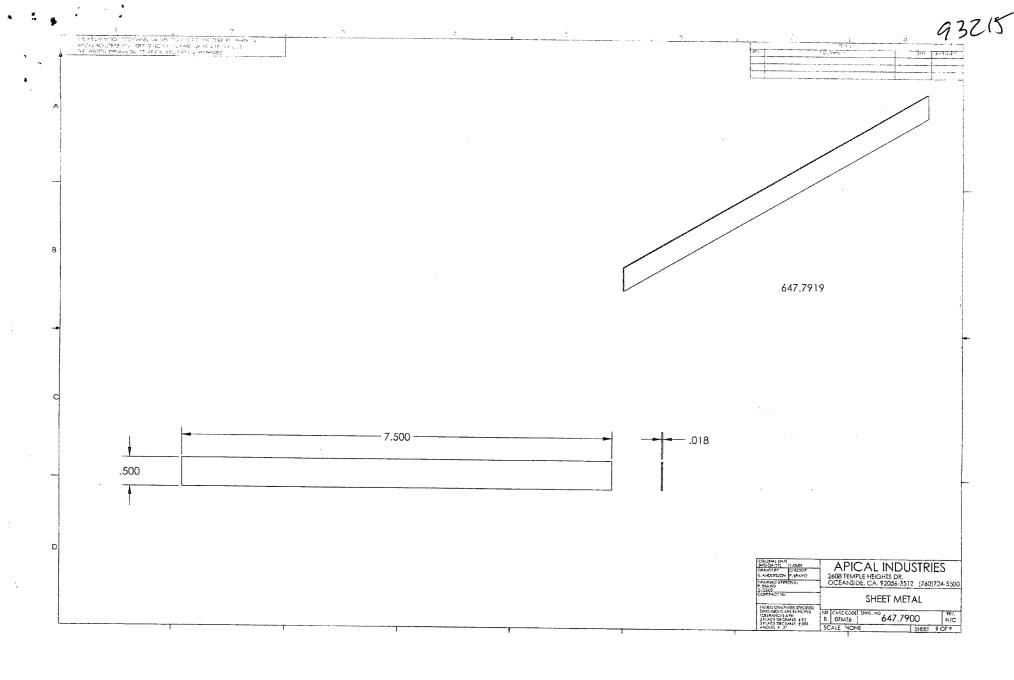
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A3	1.125±.002	.400±.002	Ф.100 тней
A4	1.125±,002	1.680±.002	Ø.100 THRU
A5	1.891±.002	.440±.002	Ø.100 THRU
A6	1.891±.002	1-640±.002	Ø.100 THRU
A7	2.646±,0G2	.528±.002	Ø.100 THRU
48	2.646±.002	1.553±.002	Ø.100 THRU

CRICERA: DATE (MC-DA-YR) : :-23-69 DRAWN 8Y CHECKER E. ANDERSSON R. BRAVO	APICAL IND	
ERAWNG APPROVAL	OCEANSIDE, CA, 92056-3	3512 (760)724-5300
CONFACT HU. INSESS OFFERWAR SPECIFIED	SHEET METAL	
COMERCICO ARE SUPPLICHED TOLERA JUDES A RE 2 PLACE DECIMALS ± 01 3 PLACE DECIMALS ± 05	8 G7M26 DWG. NO. 647.	7900 RD. N/C
ANGUES ± 5"	SCALE NONE	SHEET 7 OF 9

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DART AEROSPACE LTD	Work Order:	693215	
Description: Backet		647, 7914	
Inspection Dwg: ピソフ マペタ Rev: ハノム		Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	ARTICLE IN Actual Dimension	Accept	Reject	Method of inspection	Comments
Q-138,	+1	 			U	0.
2.350"	thoos'	C. 28° 2 360'	<u>. ·</u>		7	Produsor
8 360 ·	11-0:05	7 360				
5.177	4-0-005	5.100"	_		V	
2.259	4-0,005	5.182° 7.259°	_	,	V	
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Measured by:	Im
Date:	12-11-25

Audited by:	15
Date:	12/126

Preliminary Ap	proval:	
· š	Date:	



A.T.G. Industries Inc. 731, rue Industrielle Rd. PLATING DEPARTMENT Rockland, On K4K 1T2 Canada

Ph: (613) 446-4544 Fax: (613) 446-4556

Pack List

Number: 62212

Date: 13-Feb-13

То

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7 Canada

Ship To

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

Canada

Pn: 613-632-5	200 Fax: 613-632-1185	Ph: 613-632-5200	Fax: 613-632-1185
Terms		Ship Via	
Quantity	Description		
lot	Part: ASST 4 PCS 647.2010 14 PCS 647.2011 4 PCS 646.9910 4 PCS 647.1813 3 PCS 647.7915 8 PCS 649.4816 170 PCS 646.3715 4 PCS 647.7914 14 PCS 647.7914 14 PCS 648.3713 41 PCS 649.4813 4 PCS 647.1910 16 PCS 646.9710 HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 Job: 20130090	Rev: PO: PO18829 Line:	
	Certificate of Confo A.T.G. Industries certifies that all items in with all requirements, specifications and o ISO 9001 : 2008 REGI ATG SALES-2010 TER DATE :	ormance this shipment are in conformance drawings referenced in the purchase order.	